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Smith**

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(54) **STAVE WITH EXTERNAL MANIFOLD**

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(57) **ABSTRACT**

A stave comprising an outer housing, an inner pipe circuit
comprising individual pipes housed within the outer hous-
ing, wherein the individual pipes each has an inlet end and
an outlet end and wherein each pipe may or may not be
mechanically connected to another pipe, and a manifold,
integral with or disposed on or in the housing; wherein the
inlet and/or outlet ends of each individual pipe is disposed
in or housed by the manifold. The manifold may be made of
carbon steel while the housing may be made of copper. Each

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